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01 AUG 96 10:30:12 U.S. Patent & Trademark Office P0003  
(380\*?/CCLS)  
L6 2 L2 AND 380\*?/CCLS

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SET PAGELENGTH 62  
SET LINELENGTH 78  
L1 226 S VIDEO/II,AB AND (BUS OR DATABUS)/II,AB  
L2 72 S L1 AND (MASTER# OR SLAVE#)  
L3 29046 S (AUTHORIZ? OR AUTHORIS? OR AUTHENTICAT? OR ACKNOWLEDG?)  
L4 28 S L2 AND L3  
L5 13 S L4 AND KEY#  
L6 2 S L2 AND 380\*?/CCLS

=> s l5 or l6

L7 13 L5 OR L6

=> d cit,ab 1-13

1. 5,461,679, Oct. 24, 1995, Method and apparatus for encoding/decoding image data; James O. Normile, et al., 382/304, 305; 395/163, 474, 650 [IMAGE AVAILABLE]

US PAT NO: 5,461,679 [IMAGE AVAILABLE] L7: 1 of 13

ABSTRACT:

An apparatus and method for processing video data for compression/decompression in real-time. The apparatus comprises a plurality of compute modules, in a preferred embodiment, for a total of four compute modules coupled in parallel. Each of the compute modules has a processor, dual port memory, scratch-pad memory, and an arbitration mechanism. A first bus couples the compute modules and a host processor. Lastly, the device comprises a shared memory which is coupled to the host processor and to the compute modules with a second bus. The method handles assigning portions of the image for each of the processors to operate upon.

2. 5,448,562, Sep. 5, 1995, Bi-directional bus system and transmitting, receiving, and communication methods for same; Yoshio Osakabe, et al., 370/85.1, 94.1, 99, 110.1 [IMAGE AVAILABLE]

US PAT NO: 5,448,562 [IMAGE AVAILABLE] L7: 2 of 13

ABSTRACT:

There is a communication system using a bi-directional bus, which includes a plurality of devices (e.g., TV image receiver or video tape recorder, etc.) connected to each other. Each device comprises a transmit signal formation unit adapted to form a transmit signal having a frame structure consisting of an address field for specifying addresses of devices between which communication is carried out, a control field for specifying a data communication command indicating communication of data or a control command communication command indicating communication of control command, whereby, in transmitting data, the device specifies the content of the control field of the leading frame as the data communication command to form the transmit signal; a bus output unit for outputting the transmit signal formed by the transmit signal formation unit to the bi-directional bus; a bus input unit adapted to receive the bi-directional bus; and a control unit for detecting on the basis of the content of the control field of the leading frame of the transmit signal received by the bus input unit whether current

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P0007

US PAT NO: 4,850,027 [IMAGE AVAILABLE] L7: 10 of 13  
elements, setting up the image processing system most closely approaching the optimum for the job. Limitations are only bus capacity, bus connections and CAGE to CAGE connections. The system features host computer, video buffer, and pipeline of CAGES, each CAGE having bit stream input, an array of PEGs, and CAGE exit mechanism which provides a bit stream output in the form of X-Y coordinates of selected pels. An additional feedback loop, from BC output to BC input within the PE, significantly adds to capability with little additional structure.

11. 4,570,217, Feb. 11, 1986, Man machine interface; Bruce S. Allen, et al., 364/188, 191, 919, 921.4, 921.8, 921.9, 926, 926.9, 926.92, 927.3, 927.4, 928, 929.2, 929.3, 935, 935.2, 935.4, 935.41, 940.61, 940.62, 941, 949, 949.3, 959.1, 968, 969, 969.1, 977, DIG.2 [IMAGE AVAILABLE]

US PAT NO: 4,570,217 [IMAGE AVAILABLE] L7: 11 of 13

ABSTRACT:

A man-machine interface for use with industrial processes is disclosed having the capability of design and configuration of the interrelationship of components forming an overall industrial process. The man-machine interface further provides operator use, including process monitoring and control, as well as alarm annunciation. Most user interaction with the man-machine interface is performed through a color CRT monitor having a touch panel on the surface of the CRT screen. Operator use may be limited to touch panel interaction while configurator and designer use normally further includes use of a keyboard.

The man-machine interface utilizes distributed processing and incorporates a high level graphic language. The graphic language facilitates real time graphic display implementation through use of dynamic and static variables. Variable types are dynamically associated with variable values so that variables can undergo type changes without detrimental effect. Video bit bangers and shifters further enhance the versatility and ease of implementing rapid modifications of graphic displays. The man-machine interface further incorporates a new bus structure including a new bus arbitration technique, a unidirectional memory boundary protection mechanism, an improved interrupt system, and an improved watchdog timer circuit.

12. 4,332,980, Jun. 1, 1982, Multiple services system using telephone local loop; Christopher C. Reynolds, et al., 370/30; 340/870.02; 379/49, 102, 107 [IMAGE AVAILABLE]

US PAT NO: 4,332,980 [IMAGE AVAILABLE] L7: 12 of 13

ABSTRACT:

A multiple services system using telephone lines to supply various data services to subscribers, including alarm surveillance, meter reading, energy management and digital data service, provides a multi-conductor subscriber bus at the subscriber premises for selective connection of plural data service terminals to the system and a switching communication controller at the central office which acts as a concentrator for the transmission of alarm, meter reading and control signals between the subscriber data system and a central control system, while acting as a switch for the connection of the subscriber data system to a data service system for transmission to the subscriber of digital video display data on request. The transmission over the telephone lines is transparent to normal telephone service and all communications within the system, including those on the subscriber bus, are effected in accordance with a predetermined link control protocol.

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01 AUG 96 10:31:59 U.S. Patent & Trademark Office P0008  
13. 4,204,206, May 20, 1980, Video display system; Richard E. Bakula, et  
al., 345/115, 192; 364/926.7, 927.2, 927.4, 927.61, 927.62, 927.63, 928, 931,  
931.4, 932, 932.61, 933.9, 935.6, 940, 940.2, 940.4, 941, 941.2, 942, 943,  
943.1, 943.4, 943.9, 945.7, 948.1, 959.1, 959.4, 962, 962.1, 963, 965, 965.5,  
965.76, 966.1, 966.4, 975.1, 975.2, DIG.2; 395/157 [IMAGE AVAILABLE]

US PAT NO: 4,204,206 [IMAGE AVAILABLE] L7: 13 of 13

ABSTRACT:

The system includes a host computer having mass storage facilities together with a plurality of video display terminals having editing capabilities. Facilities are provided so that each editing terminal may on power-up communicate with the host computer which then downloads a control program into the terminal and is stored in the terminal's main memory such as read/write random access memory (RAM). Data to be displayed at the terminal may be downloaded from the host computer in the same manner and, in addition, data may be entered by a local keyboard for display and editing purposes. Each terminal is a processor driven terminal with a common bus architecture and performs various functions in accordance with the control program downloaded from the host computer. The terminal is structured so that it may display text obtained from one or more input sources on different areas of a common display screen. The text in the different areas may be scrolled and edited independently of each other.

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FILE 'JPOABS' ENTERED AT 10:32:35 ON 01 AUG 96

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01 AUG 96 10:32:53 U.S. Patent & Trademark Office P0009  
SET PAGELength 62  
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L2 72 S L1 AND (MASTER# OR SLAVE#)  
L3 29046 S (AUTHORIZ? OR AUTHORIZ? OR AUTHENTICAT? OR ACKNOWLEDG?)  
L4 28 S L2 AND L3  
L5 13 S L4 AND KEY#  
L6 2 S L2 AND 380\*?/CCLS  
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=> s video and (bus or databus)  
57661 VIDEO  
34226 BUS  
11 DATABUS  
L8 651 VIDEO AND (BUS OR DATABUS)

=> s l8 and (master# or slave#)  
23582 MASTER#  
11547 SLAVE#  
L9 19 L8 AND (MASTER# OR SLAVE#)

=> d cit,ab 1-19

1. 06-6798, Jan. 14, 1994, TRANSMISSION CONTROL SYSTEM FOR VIDEO SIGNAL;  
TSUTOMU SHINOHARA, H04N 7/18

06-6798

L9: 1 of 19

ABSTRACT:

PURPOSE:To effectively control video transmission by connecting plural video cameras with devices sending signals after time-division multiplexing and a master controlling device with one bus line and demodulating a time-division multiplex signal by the master controlling device at the video display.

CONSTITUTION:Video cameras 1, 2,...5, for example, perform the time-division multiplexing of video signals. A mask controller 5 connected with these cameras by one bus line performs the sampling of A/D converted video signals and inputs it in a field memory 12. The memory 12 writes the inputted video signal in the prescribed position and reads it out at the output. Thus, the signals from the cameras 1-4 are devided in one field and transmitted so as to superimpose the video signal from an image pickup section 11 of the prescribed size and at the prescribed location. The address are given to the data read out from the memory 12 at the output, which are sent to a line memory 14 then written in the prescribed position by the address given from the memory 14.

2. 05-276566, Oct. 22, 1993, HOME BUS SYSTEM; MOTOKI HORIKIRI, et al.,  
H04Q 9/00; H04J 1/00; H04M 9/00; H04N 7/18; H04Q 9/00

05-276566

L9: 2 of 19

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P0016

62-252574

L9: 16 of 19

input circuit at a **slave** equipment, executing the recording it to a tape.

CONSTITUTION: A signal reproduced from the tape 32 of the **master** equipment by heads 31 and 43 is inputted to the signal system of the **master** equipment, an internal **video** signal is outputted from a **video** signal output terminal 41, and a sound PCM signal, after a signal processing with a prescribed decoding processing as a center is executed, is outputted from a **bus** line 14 through an interface 63 from a digital output terminal 61. At the **slave** equipment, a **video** signal is inputted to a **video** signal input terminal 40, and recorded to the tape 32 by a **slave** equipment and the **video** head 43. A sound PCM signal is inputted from a digital input terminal 62, outputted through an interface 64 to the **bus** line 14, and after the digital signal processing is executed, recorded to the magnetic tape 32 by a rotary head 31 for sound. Thus, the delaying of the sound signal due to the copying action can be decreased.

17. 62-208156, Sep. 12, 1987, MULTIPROCESSOR SYSTEM; KEIICHIRO KUWATSURU, et al., G06F 15/16

62-208156

L9: 17 of 19

## ABSTRACT:

PURPOSE: To effectively utilize an input/output device by coupling plural micro-processors with an internal **bus** coupled with memories and the I/O device through plural **bus** interfaces and operating the microprocessors successively and asynchronously.

CONSTITUTION: Respective emulator CPUs 11.approx.1n are coupled with the body CPU internal **bus** 10 through **bus** interfaces 1.approx.(n) and a ROM 41, a RAM 42, a DMA 43, a **video** RAM 44, and the I/O device group 45 are connected to the **bus** 10. The device group 45 is shared by all the CPUs 11.approx.1n, **bus** a CPU for executing I/O access is fixed only one of the CPUs 11.approx.1n and sequentially and asynchronously operated. When an I/O access request is generated in a program in executing, a **slave** CPU is replaced by a **master** CPU and the I/O access is executed by the **master** CPU. Thus, the sharing use of the I/O device group 45 between the CPUs having different structure each other can be attained independently of the transmission/reception of an instruction and response data.

18. 60-218131, Oct. 31, 1985, DISPLAY DEVICE; ICHIROU OOHASHI, G06F 3/14; G09G 1/00

60-218131

L9: 18 of 19

## ABSTRACT:

PURPOSE: To form a **slave** display part economically by displaying the prescribed information in the 2nd **video** memory only writable under control by a microprocessor (MP) on a part of the 1st display part and selecting and controlling whether access to the 2nd memory is to be executed by the MP or the like.

CONSTITUTION: Access to the 1st **video** memory 105 storing picture display information is switched by a switching circuit 104 to select the MP101 or a

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P0017

60-218131

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CRT refresh control part 106 and the information in the memory 105 is read out by the control part 106 and applied to the 1st CRT display part 109. The 2nd video memory 111 storing the same information as that of the memory 105 is enabled to be written only from the MP101 and whether access to the memory 111 is executed by the MP101 or an LCD refresh control part 112 is selectively controlled. At the writing of data in the memory under control by the MP, the address data line of the memory 111 is connected to a microprocessor bus 120, and in other cases, connected to the LCD refresh control part 112.

19. 58-39195, Mar. 7, 1983, MASTER STATION DEVICE FOR REMOTE SUPERVISORY ANDCONTROLLING DEVICE; TAKEO YAMANAKA, H04Q 9/00

58-39195

L9: 19 of 19

ABSTRACT:

PURPOSE:To supervise and control plural slave stations with a supervisory and controlling board consisting of a fixed hardware, by using a card to select slave equipments.

CONSTITUTION:Data from slave station devices R.sub.1, R.sub.2.approx.RN which come through transmission lines L.sub.1, L.sub.2.approx.LN are received by an interface LI and are transmitted to a status memory SM through a data bus B in accordance with the program of a central processing unit CP, and the status memory SM receives these data to update and store contents. When the operator selects a card C and sets it to a card reader CR, information of this card is discriminated through an input controlling circuit CI by the central processing unit CP. On a basis of the discrimination result, related parts of a pattern memory PM and the status memory SM are outputted and displayed on a video display device VD through an output controlling circuit CO.

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